

<b>COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY</b> (Includes Reference to PCT International Applications)	<b>ATTORNEY'S DOCKET NUMBER</b> 22221/1030 (RU-339CIP)
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As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**ENZYMES DERIVED FROM THERMOPHILIC ORGANISMS THAT FUNCTION AS A CHROMOSOMAL  
REPLICASE, PREPARATION AND USE THEREOF**

the specification of which (check only one item below):

- ☐ is attached hereto.
- ☒ was filed as U.S. Patent Application Serial No. 09/716,964 on November 21, 2000 and was amended on \_\_\_\_\_ (if applicable).
- ☐ was filed as PCT International Application No. \_\_\_\_\_ on \_\_\_\_\_ and was amended under PCT Article 19 on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specifications, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim priority benefits under Title 35, United States Code, § 119 of any application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States listed below and have also identified below any application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY (If PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
United States	60/043,202	8-APRIL-1997	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT International filing date of this application:

**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:**

U.S. APPLICATIONS		STATUS (Check One)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
09/642,218	August 18, 2000		X	
09/057,416	April 8, 1998			X
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)		

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Continue)				ATTORNEY'S DOCKET NUMBER 2221/1030 (RD-339CIP)
<b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Michael L. Goldman, Registration No. 30,727; Joseph M. Noto, Registration No. 32,163; Gunnar G. Leinberg, Registration No. 35,584; Edwin V. Merkel, Registration No. 40,087; Georgia Evans, Registration No. 44,597; Alice Y. Choi, Registration No. 45,758				
<b>Send Correspondence to:</b> Michael L. Goldman NIXON PEABODY LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603			<b>Direct Telephone Calls to:</b> (name and telephone number) Michael L. Goldman (716) 263-1304	
2 0 1	FULL NAME OF INVENTOR	FAMILY NAME O'Donnell	FIRST GIVEN NAME Michael	SECOND GIVEN NAME E.
	RESIDENCE & CITIZENSHIP	CITY Hastings-on-Hudson	STATE/FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	P.O. ADDRESS 16 Maple Lane	CITY Hastings-on-Hudson	STATE & ZIP CODE/CTRY New York 10706/USA
2 0 2	FULL NAME OF INVENTOR	FAMILY NAME Yuzhakov	FIRST GIVEN NAME Alexander	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Malden	STATE/FOREIGN COUNTRY Massachusetts	COUNTRY OF CITIZENSHIP Russia
	POST OFFICE ADDRESS	P.O. ADDRESS 25 Bayrd Street	CITY Malden	STATE & ZIP CODE/CTRY Massachusetts 02148/USA
2 0 3	FULL NAME OF INVENTOR	FAMILY NAME Yurlova	FIRST GIVEN NAME Olga	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP Russia
	POST OFFICE ADDRESS	P.O. ADDRESS 430 East 63 <sup>rd</sup> Str., Apt. 3G	CITY New York	STATE & ZIP CODE/CTRY New York 10021/USA
2 0 4	FULL NAME OF INVENTOR	FAMILY NAME Jerusalemi	FIRST GIVEN NAME David	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY <i>Cambridge</i> <i>New York</i>	STATE/FOREIGN COUNTRY <i>Massachusetts</i>	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	P.O. ADDRESS <i>205 Walden</i> <i>1161 York Avenue, #111</i>	CITY <i>Cambridge</i> <i>New York</i>	STATE & ZIP CODE/CTRY <i>Massachusetts</i> <i>New York 10021/USA</i>
2 0 5	FULL NAME OF INVENTOR	FAMILY NAME Bruck	FIRST GIVEN NAME Irina	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY New York	STATE/FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	P.O. ADDRESS 1161 York Avenue, Apt. 11M	CITY New York	STATE & ZIP CODE/CTRY New York 10021/USA
2 0 6	FULL NAME OF INVENTOR	FAMILY NAME Kuriyan	FIRST GIVEN NAME John	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Berkeley	STATE/FOREIGN COUNTRY California	COUNTRY OF CITIZENSHIP United States
	POST OFFICE ADDRESS	P.O. ADDRESS 936 Oxford Street	CITY Berkeley	STATE & ZIP CODE/CTRY California 94707/USA

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE	DATE
SIGNATURE OF INVENTOR 204 <i>Daniel M. Muzah</i>	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE 3/11/03	DATE	DATE

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<b>Send Correspondence to:</b> Michael L. Goldman NIXON PEABODY LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603			<b>Direct Telephone Calls to:</b> (name and telephone number) Michael L. Goldman (716) 263-1304	
2 0 1	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
		O'Donnell	Michael	E.
		Hastings-on-Hudson	New York	United States
		16 Maple Lane	Hastings-on-Hudson	New York 10706/USA
2 0 2	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
		Yuzhakov	Alexander	
		Malden	Massachusetts	United States (from 11/07/02)
		25 Bayrd Street	Malden	Massachusetts 02148/USA
2 0 3	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
		Yurieva	Olga	
		New York	New York	Russia
		430 East 63 <sup>rd</sup> Str., Apt. 3G	New York	New York 10021/USA
2 0 4	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
		Jeruzalmi	David	
		New York	New York	United States
		1161 York Avenue, #11I	New York	New York 10021/USA
2 0 5	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
		Bruck	Irina	
		New York	New York	United States
		1161 York Avenue, Apt. 11M	New York	New York 10021/USA
2 0 6	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE/FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	P.O. ADDRESS	CITY	STATE & ZIP CODE/CTRY
		Kuriyan	John	
		Berkeley	California	United States
		936 Oxford Street	Berkeley	California 94707/USA

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SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202 <i>Alexander Yuhakov</i>	SIGNATURE OF INVENTOR 203
DATE	DATE <i>08/12/03</i>	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE

COMBINED DECLARATION FOR PATENT  
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(Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER  
22221/1030 (RU-339CIP)

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09/057,416	April 8, 1998			X	
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**Send Correspondence to:** **Michael L. Goldman**  
**NIXON PEABODY LLP**  
**Clinton Square, P.O. Box 31051**  
**Rochester, New York 14603**

**Direct Telephone Calls to:**  
(name and telephone number)  
**Michael L. Goldman**  
**(716) 263-1304**

201	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> O'Donnell	<b>FIRST GIVEN NAME</b> Michael	<b>SECOND GIVEN NAME</b> E.
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> Hastings-on-Hudson	<b>STATE/FOREIGN COUNTRY</b> New York	<b>COUNTRY OF CITIZENSHIP</b> United States
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> 16 Maple Lane	<b>CITY</b> Hastings-on-Hudson	<b>STATE &amp; ZIP CODE/CTRY</b> New York 10706/USA
202	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> Yuzhakov	<b>FIRST GIVEN NAME</b> Alexander	<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> Malden	<b>STATE/FOREIGN COUNTRY</b> Massachusetts	<b>COUNTRY OF CITIZENSHIP</b> Russia
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> 25 Bayrd Street	<b>CITY</b> Malden	<b>STATE &amp; ZIP CODE/CTRY</b> Massachusetts 02148/USA
203	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> Yurieva	<b>FIRST GIVEN NAME</b> Olga	<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> New York	<b>STATE/FOREIGN COUNTRY</b> New York	<b>COUNTRY OF CITIZENSHIP</b> Russia
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> 430 East 63 <sup>rd</sup> Str., Apt. 3G	<b>CITY</b> New York	<b>STATE &amp; ZIP CODE/CTRY</b> New York 10021/USA
204	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> Jeruzalmi	<b>FIRST GIVEN NAME</b> David	<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> New York	<b>STATE/FOREIGN COUNTRY</b> New York	<b>COUNTRY OF CITIZENSHIP</b> United States
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> 1161 York Avenue, #111	<b>CITY</b> New York	<b>STATE &amp; ZIP CODE/CTRY</b> New York 10021/USA
205	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> Bruck	<b>FIRST GIVEN NAME</b> Irina	<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> New York	<b>STATE/FOREIGN COUNTRY</b> New York	<b>COUNTRY OF CITIZENSHIP</b> United States
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> 1161 York Avenue, Apt. 11M	<b>CITY</b> New York	<b>STATE &amp; ZIP CODE/CTRY</b> New York 10021/USA
206	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b> Kuriyan	<b>FIRST GIVEN NAME</b> John	<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> Berkeley	<b>STATE/FOREIGN COUNTRY</b> California	<b>COUNTRY OF CITIZENSHIP</b> United States
	<b>POST OFFICE ADDRESS</b>	<b>P.O. ADDRESS</b> 936 Oxford Street	<b>CITY</b> Berkeley	<b>STATE &amp; ZIP CODE/CTRY</b> California 94707/USA

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SIGNATURE OF INVENTOR 201 <i>Mike Donald</i>	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203 <i>[Signature]</i>
DATE 2/14/2003	DATE	DATE 2/14/03
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205 <i>[Signature]</i>	SIGNATURE OF INVENTOR 206
DATE	DATE 2/14/03	DATE

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Send Correspondence to: <b>Michael L. Goldman NIXON PEABODY LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603</b>				Direct Telephone Calls to: (name and telephone number) <b>Michael L. Goldman (716) 263-1304</b>	
2 0 1	FULL NAME OF INVENTOR	FAMILY NAME O'Donnell	FIRST GIVEN NAME Michael	SECOND GIVEN NAME E.	
	RESIDENCE & CITIZENSHIP	CITY Hastings-on-Hudson	STATE/FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP United States	
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2 0 4	FULL NAME OF INVENTOR	FAMILY NAME Jeruzalmi	FIRST GIVEN NAME David	SECOND GIVEN NAME	
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2 0 5	FULL NAME OF INVENTOR	FAMILY NAME Bruck	FIRST GIVEN NAME Irina	SECOND GIVEN NAME	
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2 0 6	FULL NAME OF INVENTOR	FAMILY NAME Kuriyan	FIRST GIVEN NAME John	SECOND GIVEN NAME	
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statement may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE 3/11/03

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